

# Item for discussion

S. Fazio

for the conveners: R. Dupre (Orsay), S. F. (BNL), T. Lappi (Jyvaskyla), B. Pasquini (Pavia), D. Sokhan (Glasgow)

- Charge for Pavia meeting (22-24 May):
  - *"Break-down physics deliverables into "physics objects" (PO) [electron, hadron (ID/noID), muon, jet];*
  - *map out kinematics for each PO.*
- Where do we stand now? (let's revise our path towards goals...)
  - ✓ Exclusive processes in heavy ions (T. Ullrich)
  - ✓ Neutron GPDs - D double tagging (Kong)
  - $\pi^0$  requirements (Maxime, FX, Pawel/PARTONS, S.F.): progressing... (converge before Pavia?)
  - Dijets and Wigner (Z. Zhang): progressing...
  - VMs extraction and the muon I.D. (Sylvester, Yulia): started... (timeline?)
  - Kinematics and energy reach: discussion initiated at Temple (C. Weiss chair)
  - Light Nuclei: no progress yet (MILOU can be used, Sergio, Sara, Vadim, Pawel, FX, S.F.)
  - TCS, pseudoscalars (Marie, Jakub)
  - Backward meson-production (Bill & Bernard P)
- Start of the Yellow Report write-up for our Exclusive Processes section. Please help!
  - We aim to assign single sections to key people
  - **Aim: First draft by Pavia :)**

# Template for our draft on overleaf

Go to: <https://www.overleaf.com/project/5e2df298b24ba1000124092b>

## 2 First draft of actual Yellow report

**TLappi:** Current subsection structure based on work **so far reported** in WG. Eventual order of topics to be discussed. Current order reflects my (TL) impression of how mature studies are for writing up (i.e. not to be taken as order of importance!). Listing people who have given talks, these should be taken as people the conveners expect can contribute and write things up here; already now if possible. Trying to list here only people who have already presented something, thus list not exhaustive.

### 2.1 Exclusive vector mesons with heavy nuclei

Work reported by T. Ullrich Feb 28, Temple Mar 20, Mar 27, Apr 3, Apr 17, Ready to be written up?

### 2.2 Exclusive VM kinematics (*ep*)

Work reported by S. Joosten at Temple, Mar 20, Apr 17, quite mature and ready for writing up?

### 2.3 Backward angle $\pi^0$

Bernard Pire, Bill Lee, Feb 28, Mar 6, Apr 17

### 2.4 Double tagging of deuteron in exclusive e+D reactions (neutron GPD's etc)

Work reported by Zhoudunming Tu, Alex Jentsch Mar 6,

### 2.5 Positron beams

In YR: summarize physics case made by E. Voutier Mar 27 Discussed in separate meeting Apr 21: General consensus opinion in this WG is that positrons should be taken into account as an upgrade option in the accelerator design now. This means avoiding as much as possible design choices that would make adding a positron source as a separate project later on prohibitively expensive. Includes things like: layout of buildings on site, power supplies that can change polarity. Now is not the time to take any firm stand on technology choice for the positron source or actually design it.

### 2.6 DVCS and exclusive $\pi^0$

- FX Girod Mar 13
- S. Fazio Apr 3
- PARTONS+collaborators, Tezgin Mar 13, Defurne, Moutarde, Kumericki, Sznajder Apr 24

- Look for the section with your name
  - Don't find it? Let us know!
- Write concise details of your study
  - Stay within ~ a page
  - Put references and a few highlight plots
  - Carefully draft detector/IR/lumi requirements steaming from your study
  - **REMEMBER:** our section of the documents will be ~15 pages only!
- Conveners will monitor this process and will encourage contributions
- Conveners will also do editing in order to keep the document consistent and circulate new drafts when ready
- It is a tough moment for all of us and deadlines are tight... but together we can do this! 😊